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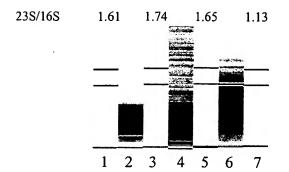
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Dkt. No: AMBI:089US Customer No.: 32425 Inventor: Gary J. Latham et al.

Title: Improved Nuclease Inhibitor Cocktail

Filed: February 25, 2004



#### # RNA Challenge

- 1. Production source RNA control
- 2. Bovine RNase A control
- 3. Bovine RNase A + RIP
- 4. Diluted pancreas lysate control
- 5. Diluted pancreas lysate + citrate
- 6. Diluted liver lysate control
- 7. Diluted liver lysate + EDTA

FIG. 1

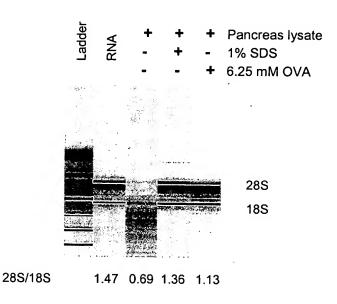


FIG. 2

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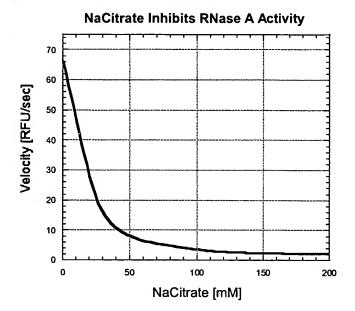


FIG. 3A

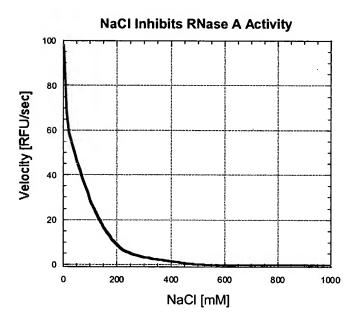
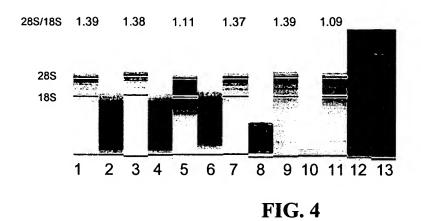


FIG. 3B

Inventor: Gary J. Latham et al.

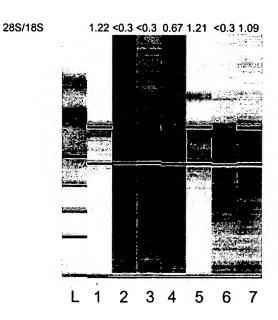
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#### # RNA Challenge Conditions

- 1. Production source RNA control
- 2. Diluted pancreas lysate control
- 3. Diluted pancreas lysate + BpB
- 4. Bovine RNase A control
- 5. Bovine RNase A + BpB
- 6. EDN control
- 7. EDN + BpB
- 8. HPR control
- 9. HPR + BpB
- 10. RNase 1 control
- 11. RNase 1 + BpB
- 12. RNase T1 control
- 13. RNase T1 + BpB



<u>#</u>

1.

2.

RNase Mixture control 3. RNase Mixture + RIP

4. RNase Mixture + Anti-RNase T1

**RNA Challenge Conditions** 

5. RNase Mixture + RIP + Anti-RNase T1

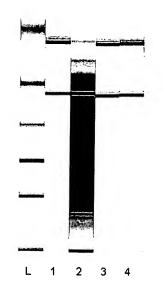
Production source RNA control

- 6. RNase Mixture + BpB
- 7. RNase Mixture + BpB + Anti-RNase T1

FIG. 5

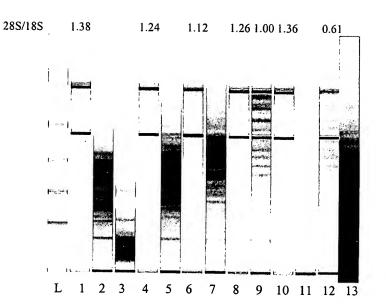
Inventor: Gary J. Latham et al.

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- # RNA Challenge Conditions
- 1. Production source RNA control
- 2. Diluted pancreas lysate control
- 3. Diluted pancreas lysate + BpB
- 4. Diluted pancreas lysate + Bp4B

FIG. 6



**FIG. 7** 

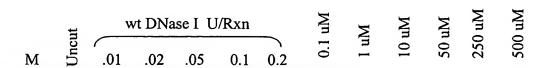
- # RNA Challenge Conditions
- 1. Production source RNA control
- 2. RNase T1 + Cpd #467929
- 3. Diluted pancreas lysate control
- 4. Diluted pancreas lysate + Cpd #467929
- 5. Bovine RNase A control
- 6. Bovine RNase A + Cpd #467929
- 7. HPR control
- 8. HPR + Cpd #467929
- 9. EDN control
- 10. EDN + Cpd #467929
- 11. RNase 1 control
- 12. RNase 1 + Cpd #467929
- 13. RNase T1 control

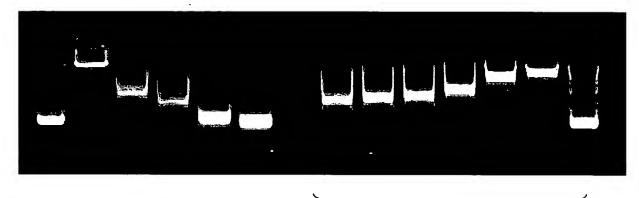
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### Concentration of Benzopurpurin



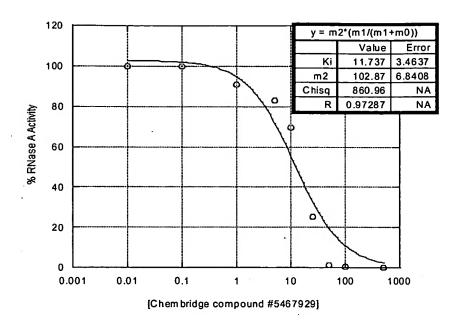


wt DI 0.02 U/Rxn

**FIG. 8** 

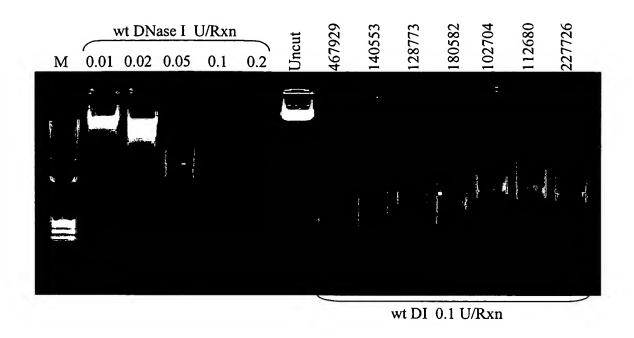
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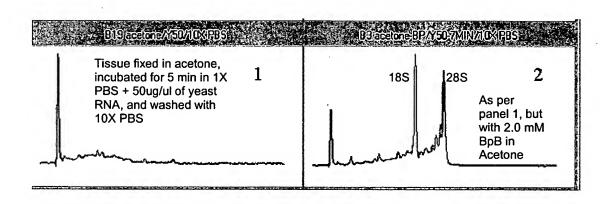


**FIG. 9** 

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**FIG. 10** 



**FIG.** 11

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**FIG. 12** 

$$R_{4}$$
Structure III

FIG. 13